	Application No.	Applicant(s)	
No.45	09/973,613	KUBO ET AL.	_
Notice of Allowability	Examiner	Art Unit	
	Chieh M. Fan	2638	
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not included will be mailed in due course. THIS	
1. 🖾 This communication is responsive to the amendment filed	<u>5/24/05</u> .		
2. The allowed claim(s) is/are <u>1-26</u> .			
3. \boxtimes The drawings filed on <u>24 May 2005</u> are accepted by the Ex	kaminer.		
 4. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application No		;
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements	
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMINER' es reason(s) why the oath or declarate	S AMENDMENT or NOTICE OF tion is deficient.	
6. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.		
(a) including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO-	948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the O	ffice action of	
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in t			
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATERIAL n	nust be submitted. Note the	
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	6. ⊠ Interview Summary Paper No./Mail Date 8), 7. ⊠ Examiner's Amendm	e	
of Biological Material	9. Other		

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DETAILED ACTION

Examiner's Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Brian S. Myers on 08/03/05.

The application has been amended as follows:

In the claims:

- a. In claim 2, line 12, "the output signal" has been changed to --- an output signal ---.
- b. In claim 4, line 6, "the phase of said reference" has been changed to --- a phase of said reference ---.
- c. In claim 4, line 8, "the phase of said feedback" has been changed to --- a phase of said feedback ---.
- d. In claim 5, line 6, "the phase of said feedback" has been changed to --- a phase of said feedback ---.
- e. In claim 7, line 2, "the sign" has been changed to --- a sign ---.

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f. In claim 8, lines 9-10, "said determined phase difference" has been changed to --- the determined phase difference ---.

- g. In claim 9, lines 7-8, "said determined phase difference" has been changed to --- the determined phase difference ---.
- h. In claim 10, line 5, "said determined phase difference" has been changed to --- the determined phase difference ---.
- i. In claim 11, lines 5-6, "said determined phase difference" has been changed to --- the determined phase difference ---.
- j. In claim 11, line 6, "the output signal" has been changed to --- an output signal ---.
- k. In claim 12, lines 5-6, "said determined phase difference" has been changed to --- the determined phase difference ---.
- In claim 12, line 6, "the output signal" has been changed to --- an output signal ---.
- m. In claim 16, line 7, "the value output" has been changed to --- a value output ---.
- n. In claim 16, line 8, "the count value" has been changed to --- a count value
- o. In claim 17, lines 9-10, "said detected phase difference" has been changed to --- the detected phase difference ---.
- p. In claim 17, line 10, "the output signal" has been changed to --- an output signal ---.

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q. In claim 18, line 7, "said detected phase difference" has been changed to -- the detected phase difference ---.

- r. In claim 19, line 4, "the digital-phase component" has been changed to --the in-phase component ---.
- s. In claim 19, line 5, "the result" has been changed to --- the demodulated feedback signal ---.
- t. In claim 19, lines 7-8, "said detected phase difference" has been changed to --- the detected phase difference ---.
- u. In claim 19, line 8, "the output signal" has been changed to --- an output signal ---.
- v. In claim 20, lines 5-6, "said detected phase difference" has been changed to --- the detected phase difference ---.
- w. In claim 20, line 6, "the output signal" has been changed to --- an output signal ---.
- x. In claim 21, lines 5-6, "said detected phase difference" has been changed to --- the detected phase difference ---.
- y. In claim 21, line 6, "the output signal" has been changed to --- an output signal ---.
- z. In claim 24, line 11, "said detected phase difference" has been changed to --- the detected phase difference ---.
- aa. In claim 24, line 11, "the output signal" has been changed to --- an output signal ---.

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bb. In claim 25, lines 6-7, "said detected phase difference" has been changed to --- the detected phase difference ---.

- cc. In claim 26, line 6, "a distortion-compensating signal" has been changed to --- a distortion-compensating signal using a distortion-compensating signal generator ---.
- dd. In claim 26, lines 15-16, "said feedback produced by an signal" has been changed to --- said feedback signal ---.

Statement of Reasons for Allowance

2. The following is an examiner's statement of reasons for allowance:

Regarding claims 1-25, the prior art of record does not teach the combination of "a distortion-compensating signal generator", "a second digital/analog converter", "an adder" and "a first phase difference compensator" as recited in independent claim 1.

Claim 26 is a corresponding method claim of claim 1. Claim 26 is allowed for the same reason applied to claim 1 above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chieh M. Fan whose telephone number is (571) 272-

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3042. The examiner can normally be reached on Monday-Friday 8:00AM-5:30PM, Alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kenneth Vanderpuye can be reached on (571) 272-3078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chieh M Fan Primary Examiner Art Unit 2638

cmf August 4, 2005